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This listing of claims replaces all prior versions, and listings of claims in the instant application:

Listing of Claims:

1. (Currently Amended) A memory having stored therein a structure readable by a host adapter comprising:

a scatter/gather list comprising a plurality of scatter/gather list sections wherein each of said sections is stored in a different set of contiguous memory locations in said memory and said set of contiguous memory locations can be of any size, wherein at least one scatter/gather list section in said plurality of scatter/gather list sections comprises:

a plurality of data elements, wherein each data element comprises:

an end-of-list flag; and an end-of-section flag,

wherein said plurality of data
elements includes (j) data elements where
j is an integer;

said end of list flag has a first
state in a first (j-1) of said data
elements;

said end of list flag in data
element j has said first state if said
data element j is not a last data element
in said scatter/gather list, and has a
second state different from said first
state if said data element j is said last
data element in said scatter/gather list;
and

each data element in said plurality
of data elements includes:

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a segment address;

wherein said segment address is associated with a location in a first memory having information stored therein and said information is to be transferred from said first memory to a second memory.

- 2. (Currently Amended) The scatter/gather list of Claim 1 wherein said end-of-list flag has a same value said first state in said each data element.
- 3. (Currently Amended) The scatter/gather list of Claim 1 wherein said end-of-section flag has a same value state in said each data element.
- 4. (Currently Amended) The scatter/gather list of Claim 1 wherein said end-of-section flag has a first value state in a last data element in said plurality of data elements, and a second value state in all other data elements in said plurality of data elements.
- 5. (Currently Amended) The scatter/gather list of Claim 4 wherein said end-of-list flag has a same value said first state in said each data element.
- 6. (Currently Amended) The scatter/gather list of Claim 4 wherein said end-of-list flag has a same value said second state in said last data element in said plurality of data elements, and a second value said first state in all other data elements in said plurality of data elements.
- 7. (Original) The scatter/gather list of Claim 1 wherein said end-of-list flag has a size of one bit.

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- 8. (Original) The scatter/gather list of Claim 1 wherein said end-of-section flag has a size of one bit.
- 9. (Currently Amended) The scatter/gather list of Claim 1 wherein said each data element further comprises:

 an address field including said segment address.
- 10. (Original) The scatter/gather list of Claim 9 wherein said end-of-list flag, and said end-of-section flag are included within said address field.
- 12. (Original) The scatter/gather list of Claim 9 wherein said each data element further comprises:

 a length field.
- 13. (Original) The scatter/gather list of Claim 1 said at least one scatter/gather list section further comprises:

 a link element comprising:

an end-of-list flag; and an end-of-section flag.

- 14. (Currently Amended) A memory having stored therein a structure, readable by a host adapter, comprising:
 - a scatter gather list comprising a plurality of scatter/gather list sections wherein each of said sections is stored in a different set of contiguous memory locations and said set of contiguous memory locations can be of any size, and further stored in a memory wherein at least one scatter/gather list section

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in said plurality of scatter/gather list sections comprises:

a plurality of data elements, wherein each data element comprises:

an end-of-list flag wherein said end-of-list flag has a first state;

an end-of-section flag;

an address field having a data segment address; and

a length field having a data segment
length wherein said data segment address and
said data segment length are used in
determining an area in a first memory having
information stored therein and said
information is to be transferred from said
first memory to a second memory; and
a link element comprising:

an end-of-list flag;

an end-of-section flag; and

an address field having a next list section address to another scatter/gather list section in said plurality of scatter/gather list sections.

15. (Currently Amended) A memory having stored therein a structure readable by a host adapter comprising:

a scatter/gather list comprising a plurality of scatter/gather list sections wherein each of said sections is stored in a different set of contiguous memory locations and said set of contiguous memory locations can be of any size, and further stored in a memory wherein at least one scatter/gather list section in said plurality of scatter/gather list sections comprises:

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a plurality of data elements, wherein each data element consists of:

an address field comprising:

a data segment address;

an end-of-list flag; and

an end-of-section flag

wherein said plurality of data
elements includes j data elements where j
is an integer;

said end of list flag has a first
state in a first (j-1) of said data
elements;

said end of list flag in data
element j has said first state if said
data element j is not a last data element
in said scatter/gather list, and has a
second state different from said first
state if said data element j is said last
data element in said scatter/gather list;
and

said data segment address is
associated with a location in a first
memory having information stored therein
and said information is to be transferred
from said first memory to a second
memory; and

a link element consisting of:
 an address field comprising:
 a next list section address;
 an end-of-list flag; and
 an end-of-section flag.

16. (Currently Amended) A <u>computer system</u> structure comprising:

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a memory comprising a scatter/gather list, readable by a host adapter, comprising a plurality of scatter/gather list sections wherein each of said sections is stored in a different set of contiguous memory locations and said set of contiguous memory locations can be of any size, and further wherein at least one scatter/gather list section in said plurality of scatter/gather list sections comprises:

a plurality of data elements wherein each data element comprises:

an end-of-list flag; and
an end-of-section flag,

wherein said plurality of data
elements includes (j) data elements where
j is an integer;

said end of list flag has a first
state in a first (j-1) of said data
elements;

said end of list flag in data
element j has said first state if said
data element j is not a last data element
in said scatter/gather list, and has a
second state different from said first
state if said data element j is said last
data element in said scatter/gather list;
and

each data element in said plurality
of data elements includes:

a segment address;

wherein said segment address is
associated with a location in a
first memory having information
stored therein and said information

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is to be transferred from said first memory to a second memory.

- 17. (Currently Amended) The <u>computer system structure</u> of Claim 16 wherein said at least one scatter/gather list section further comprises:
 - a link element comprising:
 an end-of-list flag; and
 an end-of-section flag.
- 18. (Currently Amended) A <u>computer system</u> structure comprising:

a memory comprising a scatter/gather list, readable by a host adapter, comprising a plurality of scatter/gather list sections wherein each of said sections is stored in a different set of contiguous memory locations and said set of contiguous memory locations can be of any size, and further wherein at least one scatter/gather list section in said plurality of scatter/gather list sections comprises:

a plurality of data elements, wherein each data element comprises:

an end-of-list flag; an end-of-section flag;

an address field having a data segment address; and

a length field having a data segment length wherein said data segment address and said data segment length are used in determining an area in a first memory having information stored therein and said information is to be transferred from said first memory to a second memory by said host adapter; and

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a link element comprising:
 an end-of-list flag;
 an end-of-section flag; and
 an address field having a next list
section address.

19. (Currently Amended) A method comprising:

storing a scatter/gather list, readable by a host adapter, as a plurality of sections in a memory, wherein each of said sections is stored in a different set of contiguous memory locations and said set of contiguous memory locations can be of any size, and further wherein each section includes a plurality of elements wherein each element comprises:

an address wherein said address is associated with a location in a first memory having information stored therein and said information is to be transferred from said first memory to a second memory;

an end-of-list flag; and
an end-of-section flag;

setting an end-of-list flag in a last element of a last section in said plurality of sections; and setting an end-of-section flag in at least one of said plurality of sections other than said last section.

- 20. (Previously Presented) The method of Claim 19 wherein said setting an end-of-section flag is performed on a last element in said at least one of said plurality of sections other than said last section.
- 21. (Original) The method of Claim 19 wherein said setting an end-of-section flag is performed on a link element

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in said at least one of said plurality of sections other than said last section.

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